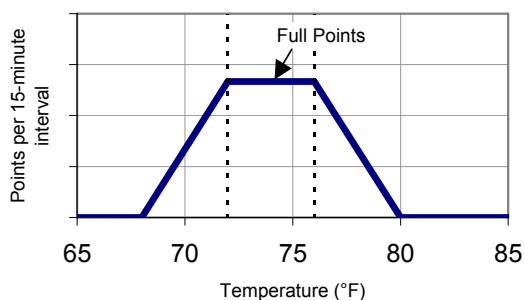


Contest 5: Comfort Zone

Indoor Temperature Control (50 pts):

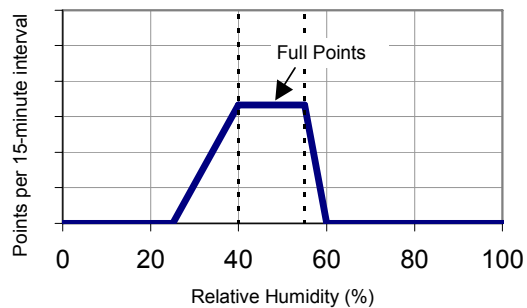
Teams earn the maximum number of points per scored 15-minute interval by keeping the time-averaged interior dry-bulb temperature between 72.0°F (22.2°C) and 76.0°F (24.4°C). A reduced point value is added to the team's score for every scored 15-minute interval that the time-averaged interior dry-bulb temperature is between 68.0°F (20.0°C) and 72.0°F (22.2°C) or between 76.0°F (24.4°C) and 80.0°F (26.7°C). Reduced point values are scaled linearly, as shown in the graph below. The number of points possible per 15-minute interval is not indicated on the y-axis of the graph. Teams can earn a total of 50 points for this Contest Activity, but the number of points per interval cannot be calculated until the total number of 15-minute intervals is known. Scoring will be suspended during hours that the houses will be open to the public for tours, so the total number of 15-minute intervals and the number of points per interval depend on the final event schedule.



Full Points:	72 °F (22 °C)	≤ Temperature ≤	76 °F (24 °C)
Reduced Points:	68 °F (20 °C)	< Temperature <	72 °F (22 °C)
or	76 °F (24 °C)	< Temperature <	80 °F (27 °C)
No Points:		Temperature ≤	68 °F (20 °C)
or		Temperature ≥	80 °F (27 °C)

Indoor Humidity Control (50 pts):

Teams earn a maximum number of points per scored 15-minute interval by keeping the time-averaged interior relative humidity between 40.0% and 55.0%. A reduced point value is added to the team's score for every scored 15-minute interval the time-averaged interior relative humidity is between 25.0% and 40.0% or between 55.0% and 60.0%. Reduced point values are scaled linearly, as shown in the graph below. The number of points possible per 15-minute interval is not indicated on the y-axis of the graph. Teams can earn a total of 50 points for this Contest Activity. The total number of 15-minute intervals and the number of points per interval depend on the final event schedule.



Full Points:	40 %	≤ Humidity	≤ 55 %
Reduced Points:	25 %	< Humidity	< 40 %
or	55 %	< Humidity	< 60 %
No Points:		Humidity	≤ 25 %
or		Humidity	≥ 60 %

Contest Activity	Points Available
Indoor Temperature Control	50
Indoor Humidity Control	50
TOTAL	100